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22. (Previously presented) The heater wire of claim 17, wherein the heat generating portion is formed from a thin plate of electrically high resistance material such as iron chromium and equivalents thereof.
23. (Previously presented) The heater wire of claim 17, wherein the heater wire is part of a laminating machine.
24. (Previously presented) The heater wire of claim 17, wherein the heater wire is part of a book-binding machine.

#### COMMENTS

Applicant would again like to thank Examiner Jeffrey for the Interview on February 10, 2005, wherein the issue of the rejection was discussed. More specifically, the substitution of the heater wire of Bohener into the apparatus of Perrett was identified as the primary issue affecting the patentability of the instant claims.

Impulse sealers commonly use a linear and totally continuous element for sealing. This is done to insure that the seal that is formed by the element is uniform along its extent and that no gaps are present in the seal that would cause failure. In addition, it is desired that the seal be uniform in its strength along its extent and that no material failure due to the heating occur in the area proximal to the final seal. An example of such a wire and the seal it makes is attached as

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Exhibit 1, as submitted in the Amendment of May 10, 2005, of which this Amendment is considered a continuation thereof.

Non-continuous or coiled type heating elements have been used in many applications for many years. These generate a quantity of heat, which flows outwardly from the coil but in a way that is not uniform due to the nature of the shape. Therefore, the ability to control the heat delivered to a receiving surface is limited by the shape of the coil because where the coil would make contact, intense heating would occur and in-between the metal portions less heat would be present making the resultant seal inconsistent. Examples of this are attached as Exhibits 3 and 4 from the Amendment of May 10, 2005. Close inspection of those seals show that a zig-zag shape wire does not give a uniform seal at all.

Applicant's zig-zag wire, however, does render a uniform seal. This is amply shown in Exhibit 2 with the resultant seal clearly showing the type of result that anyone in the art would desire. This result is due to the unique pattern of the zig-zag wire that directs the heat to uniformly flow across the plane of the element to effect consistent heat dissipation in the plane of the element itself. Thus it is shown by the exhibits that a mere substitution of any zig-zag wire into an impulse sealer is not a matter of choice.

If any ordinary skilled artisan in the sealer art were to make the substitution of the Bohener wire into the Perrett device, he would expect the seal result as shown in Exhibits 3 and 4. Thus, because of his skill, he would not choose this geometry, because as the exhibits clearly show, the end result is

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unacceptable for most seal applications. Indeed, a customer buying a sealed container with this type of seal showing would believe that in fact no seal was in fact there for any purpose except decoration.

Applicant's seal on the other hand is an excellent example of a good seal. One cannot not tell the difference between a linear wire and Applicant's zig-zag upon inspection without testing. The seal is continuous and linear. This is not due to a mere part substitution but to a carefully arranged zig-zag pattern which is the crux of the invention.

It is therefore submitted that on the surface the mere substitution of the wire of Bohener into Perrett was an easy task, but in reality, one of ordinary skill in the art would anticipate the result as shown in Exhibits 3 and 4 and not the result by virtue of Applicant's invention as shown in Exhibit 2. As discussed earlier, those Exhibits are part of the submission of May 10, 2005 to which this Amendment is a supplement thereof.

Thus it is submitted that Applicant has made a contribution to the art and that his device is not an obvious modification of known elements available to those of ordinary skill in the art, and that the instant claims are patentably distinct over the art of record and that the application is ready for issue. It is therefore requested that the Examiner issue the Notice of Allowance and pass the case to issue.

Should there be any further questions, Applicant's Agent can be reached at 813/977-1373 by phone or fax. Applicant's Agent would appreciate a telephonic

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Interview should there be any outstanding issues to expedite the allowance of the  
instant claims.

Respectfully submitted,

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